



COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

NORTHERN REGIONAL OFFICE

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Matthew J. Strickler
Secretary of Natural Resources

David K. Paylor
Director

Thomas A. Faha
Regional Director

Federal Operating Permit Article 1

This permit is based upon the requirements of Title V of the Federal Clean Air Act and Chapter 80, Article 1 of the Commonwealth of Virginia Regulations for the Control and Abatement of Air Pollution. Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9VAC5-80-50 through 9VAC5-80-300 of the State Air Pollution Control Board Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name: Digital Realty Trust
Facility Name: Digital Loudoun Parkway Center N LLC
Facility Location: 43940 Digital Loudoun Plaza
Ashburn, VA
Registration Number: 73670
Permit Number: NRO-73670

This permit includes the following programs:

Federally Enforceable Requirements - Clean Air Act

March 18, 2020
Effective Date

March 17, 2025
Expiration Date


Regional Director

March 17, 2020
Signature Date

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Facility Information

Permittee

Digital Realty Trust
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Boston, MA 02109

Responsible Official

Jonathan Buford
Regional Manager – Northern Virginia

Facility

Digital Loudoun Parkway Center N LLC
43940 Digital Loudoun Plaza
Ashburn, VA 20147

Contact Person

Cristinel Ion
Datacenter Manager
(703) 964-4727

County-Plant Identification Number: 107-00890

Facility Description: NAICS 541513 – Data processing facilities (i.e. clients' facilities) management and operations. The facility is a data center located on a campus bounded by Devin Shafron Road on the west, Shellhorn Road on the north, Loudoun County Parkway on the east, and the Dulles Greenway on the south. The address of one of the buildings near which the affected emission units are to be located is 43940 Digital Loudoun Plaza, Ashburn, VA 20147 (Loudoun County). The facility provides data hosting services for multiple clients. The affected emissions units are diesel engine generator sets (gensets) that provide electrical power to the data hosting equipment in the event of inadequate power being available via the connection to the electric utility grid to maintain normal operation.

Emission Units

Process Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
Digital Loudoun Pkwy Center N, LLC Bldg. A							
A110-EG1 A110-EG2 A110-EG3 A120-EG1 A120-EG2 A120-EG3 A130-EG1 A130-EG2 A140-EG1 A150-EG1 A150-EG2 A150-EG3	A110-B A110-D A110-R A120-B A120-D A120-R A130-B A130/140-R A140-B A150-B A150-D A150-R	Twelve (12) Cummins 2000DQKAB Diesel Engine-Generator Sets	2,000 ekW, (2,919 bhp) each	None	N/A	N/A	October 4, 2017
A Base EG	A-PBB	One (1) Cummins 275DQHAA Diesel Engine-Generator Set	275 ekW, (470 bhp)	None	N/A	N/A	October 4, 2017
GIP Stoughton Bldg. B							
B110-EG1 B110-EG2 B110-EG3 B120-EG1 B120-EG2 B120-EG3 B130-EG1 B130-EG2 B130-EG3 B140-EG1 B140-EG2 B140-EG3R	B110-B B110-D B110-R B120-B B120-D B120-R B130-B B130-D B130-R B140-B B140-D B140-R	Twelve (12) Cummins 2000DQKAB Diesel Engine-Generator Sets	2,000 ekW, (2,919 bhp) each	None	N/A	N/A	October 4, 2017
B Base EG	B-PBB	One (1) Cummins 500DFEK Diesel Engine-Generator Set	500 ekW (732 bhp)	None	N/A	N/A	October 4, 2017

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
GIP Stoughton Bldg. D							
D110-EG1 D110-EG2 D120-EG1 D120-EG2 D120-EG3 D130-B D130-D D130-R D140-B	D110-B D110-R D120-B D120-D D120-R D130-A D130-B D130-C D130-D	Nine (9) Cummins 2000DQKAB Diesel Engine-Generator Sets	2,000 ekW, (2,919 bhp) each	None	N/A	N/A	October 4, 2017
D Base EG	D-PBB	One (1) Cummins 350DFEG Diesel Engine-Generator Set	350 ekW, (520 bhp)	None	N/A	N/A	October 4, 2017
Digital Loudon II LLC Bldg. F							
F130-EG1 F130 EG2 F140-EG1 F150-EG1 F150-EG2 F150-EG3 F160-EG1 F160-EG2 F160-EG3	F130-B F130/140-R F140-B F150-B F150-D F150-R F160-B F160-D F160/170-R	Nine (9) Cummins Model 2000DQKAB Diesel Engine-Generator Sets	2,000 ekW, (2919 bhp) each	None	N/A	N/A	October 4, 2017
F Base EG	F-PBB	One (1) Cummins Model 350DFEG Diesel Engine-Generator Set	350 ekW, (520 bhp)	None	N/A	N/A	October 4, 2017
Digital Loudoun Pkwy Center N, LLC Bldg. G1							
G1-150-R G1-150-D G1-150-B G1-140-R G1-140-D G1-130-B G1-130-D G1-130-R G1-140-B	G-GR1 108/208 G208 G108 G-GR2 106/206 G206 G104 G204 G-GR3104/204/200 G106	Fourteen (14) Caterpillar Model 3516C Diesel Engine-Generator Sets	2,000 ekW, (2,937 bhp) each	None	N/A	N/A	October 4, 2017

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
G1-110-B G1-110-D G1-120-B G1-120-D G1-110/120-R	G100 G102 G200 G202 G-GR4 100/102/202						
G1-Base EG	G-PBB1	One (1) Caterpillar Model C18 DITA Diesel Engine-Generator Set	600 ekW, (900 bhp)	None	N/A	N/A	October 4, 2017
Digital Loudoun Pkwy Center N, LLC Bldg. G2							
GEN1 GEN2 GEN3 GEN4 GEN5 GEN6 GEN7 GEN8 GEN17 GEN18 GEN19 GEN20 GEN21 GEN25 GEN44	G210 G212 G-GR5 G214 G218 G-GR9 G114 G114R G216 G110 GD G110R GD G110 GB G110R AB G220 G2-G120A	Fifteen (15) Caterpillar Model 3516C Diesel Engine-Generator Sets	2,000 ekW, (2,937 bhp) each	None	N/A	N/A	October 4, 2017
Gen2.5-15 Gen2.5-16 Gen2.5-17 Gen2.5-18	G2-G116A G2-G116B G2-G118A G2-G118B	Four (4) Caterpillar Model 3516C-HD Diesel Engine-Generator Sets	2,500 ekW, (3,633 bhp) each	None	N/A	N/A	October 4, 2017
PBB6	G-PBB2	One (1) Caterpillar Model C9 ATAAC Diesel Engine-Generator Set	300 ekW, (480 bhp)	None	N/A	N/A	October 4, 2017
Digital Loudoun Pkwy Center N, LLC Bldg. K							
GEN 9 GEN 10 GEN 11 GEN 12 GEN 13 GEN14	K200 K200-GR1 K100 K202 K102-GR2 K102	Eighteen (18) Caterpillar Model 3516C Diesel Engine-Generator Sets	2,000 ekW, (2,937 bhp) each	None	N/A	N/A	October 4, 2017

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
GEN15 GEN16 GEN22 GEN23 GEN24 GEN26 GEN27 GEN28 GEN29 GEN30 GEN31 GEN32	K104 K204 K206 K206-GR3 K106 K108 K208 K210 K110-210-GR4 K110 K112 K114						
Gen2.5-1 Gen2.5-2 Gen2.5-3	K212A K212B or K214 K212C or K-GR5	Three (3) Caterpillar Model 3516C-HD Diesel Engine-Generator Sets	2,500 ekW, (3,633 bhp) each	None	N/A	N/A	October 4, 2017
PBB 7	K-PBB	One (1) Caterpillar Model C18 DITA Diesel Engine-Generator Set	600 ekW, (900 bhp)	None	N/A	N/A	October 4, 2017
Digital Loudoun Pkwy Center N, LLC Bldg. J							
Gen33 Gen34 Gen35	J200 J100/200R J100	Three (3) Caterpillar Model 3516C Diesel Engine-Generator Sets	2,000 ekW, (2,937 bhp) each	None	N/A	N/A	October 4, 2017
Gen2.5-20 Gen2.5-21 Gen2.5-22	J202A J202B J202C	Three (3) Cummins Model DQKAN Diesel Engine-Generator Sets	2,500 ekW, (3,640 bhp) each	None	N/A	N/A	October 4, 2017
Gen46 Gen47 Gen48 Gen49 Gen50 Gen51 Gen52 Gen53 Gen54	J106A J106B J106C J106D J206A J206B J206C J206D J206E	Nine (9) Cummins Model DQKAE Diesel Engine-Generator Sets	2,500 ekW, (3,640 bhp) each	None	N/A	N/A	October 4, 2017
Gen2.5-4 Gen2.5-5 Gen2.5-6	J102A J102B J102C	Three (3) Caterpillar Model 3516C-HD Diesel Engine-Generator Sets	2,500 ekW, (3,633 bhp) each	None	N/A	N/A	October 4, 2017

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity*	Pollution Control Device (PCD) Description	PCD ID	Pollutant Controlled	Applicable Permit Date
PBB 8	J-PBB	One (1) Caterpillar Model C18 DITA Diesel Engine-Generator Set	600 ekW, (900 bhp)	None	N/A	N/A	October 4, 2017
Digital Loudoun Pkwy Center N, LLC Bldg. H							
Gen36 Gen37 Gen38 Gen39 Gen40 Gen41 Gen42 Gen43	H106A H106B H106C H106D H206A H206B H206C H206D	Eight (8) Caterpillar Model 3516C Diesel Engine-Generator Sets	2,000 ekW, (2,937 bhp) each	None	N/A	N/A	October 4, 2017
Gen2.5-7 Gen2.5-8 Gen2.5-9 Gen2.5-10 Gen2.5-11 Gen2.5-12 Gen2.5-13 Gen2.5-14	H100A H100B H100C H100D H200A H200B H200C H200D	Eight (8) Caterpillar Model 3516C-HD Diesel Engine-Generator Sets	2,500 ekW, (3,633 bhp) each	None	N/A	N/A	October 4, 2017
PBB 9	H-PBB	One (1) Caterpillar Model C18 DITA Diesel Engine-Generator Set	600 ekW, (900 bhp)	None	N/A	N/A	October 4, 2017

NOTE: Gen2.5-19 is a Caterpillar 2.5 MW generator that has not been installed

*The Size/Rated capacity and PCD efficiency is provided for informational purposes only, and is not an applicable requirement.

Fuel Burning Equipment Requirements

Unless otherwise noted, the requirements below apply to all the diesel engine generator sets listed in the tables of Emission Units above.

Limitations

1. Fuel Burning Equipment Requirements - Emissions from all diesel engine-generator sets shall be controlled by the following:
 - a. Nitrogen oxides (as NO₂) emissions from the diesel engine generator sets shall be controlled by use of electronic fuel injection, turbocharged engines and low temperature after coolers.
 - b. Sulfur dioxide (SO₂) emissions from the diesel engine generator sets shall be controlled by the use of ultra-low sulfur diesel fuel with a sulfur content not to exceed 0.0015% by weight.
 - c. Carbon monoxide (CO), NO_x, particulate matter less than 10 microns (PM-10) and PM-2.5, and volatile organic compounds (VOC) emissions from the diesel engine generator sets shall be controlled by good combustion practices.
 - d. Proper combustion for and visible emissions from the emergency engine-generators shall be controlled by the use of good operating practices and performing appropriate maintenance in accordance with the manufacturer recommendations. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not degrade the air emissions from the engines.

(9VAC5-80-110 and Condition 1 of mNSR permit dated October 4, 2017)

2. Fuel Burning Equipment Requirements - The diesel engine generator sets shall only be operated in the following modes:
 - a. In situations that arise from sudden and reasonably unforeseeable events where the primary energy or power source is disrupted or disconnected due to conditions beyond the control of an owner or operator of a facility including:
 - i. A failure of the electrical grid;
 - ii. On-site disaster or equipment failure; or Public service emergencies such as flood, fire, natural disaster, or severe weather conditions.
 - b. For participation in an ISO-declared emergency, where an ISO emergency is:
 - i. An abnormal system condition requiring manual or automatic action to maintain system frequency, to prevent loss of firm load, equipment damage, or tripping of system elements that could adversely affect the reliability of an electric system or the safety of persons or property;

- ii. Capacity deficiency or capacity excess conditions;
 - iii. A fuel shortage requiring departure from normal operating procedures in order to minimize the use of such scarce fuel;
 - iv. Abnormal natural events or man-made threats that would require conservative operations to posture the system in a more reliable state; or
 - v. An abnormal event external to the ISO service territory that may require ISO action.
- c. For periodic maintenance, testing, and operational training.

(9VAC5-80-110 and Condition 4 of mNSR permit dated October 4, 2017)

3. Fuel Burning Equipment Requirements - The diesel engine generator sets in Building A, Building B, Building D, and Building F (Ref. Nos. A110-B, A110-D, A110-R, A120-B, A120-D, A120-R, A130-B, A130/140-R, A140-B, A150-B, A150-D, A150-R, B110-B, B110-D, B110-R, B120-B, B120-D, B120-R, B130-B, B130-D, B130-R, B140-B, B140-D, B140-R, D110-B, D110-R, D120-B, D120-D, D120-R, D130-A, D130-B, D130-C, D130-D, D140-D, D140-R, F130-B, F130/140-R, F140-B, F150-B, F150-D, F150-R, F160-B, F170-D, and F160/170-R) shall not operate more than 3360 hours combined per year, calculated monthly as the sum of each consecutive 12 month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9VAC5-80-110 and Condition 5 of mNSR permit dated October 4, 2017)
4. Fuel Burning Equipment Requirements - The diesel engine generator sets in Building G1 (Ref. Nos. G100, G102, G202 & G-GR4; G104, G204, G200 & G-GR3; G106, G206 & G-GR2; G108, G208 & G-GR1) shall not operate more than 1050 hours combined per year, calculated monthly as the sum of each consecutive 12 month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9VAC5-80-110 and Condition 6 of mNSR permit dated October 4, 2017)
5. Fuel Burning Equipment Requirements - The base diesel engine generator sets (Ref. Nos. G1 Base EG (G1-PBB), A Base EG (A-105), B Base EG (B-105), D Base EG (D-105), F Base EG (F-105), and PBB6 through 9) shall not operate more than 75 hours each per year, calculated monthly as the sum of each consecutive 12 month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9VAC5-80-110 and Condition 7 of mNSR permit dated October 4, 2017)
6. Fuel Burning Equipment Requirements - The fifty-four 2000 kW diesel engine generator sets in Building G2, H, J & K (Ref. Nos. Gen1 through Gen 54) shall not operate more than 2700 hours combined per year, calculated monthly as the sum of each consecutive 12 month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9VAC5-80-110 and Condition 8 of mNSR permit dated October 4, 2017)

7. Fuel Burning Equipment Requirements - The twenty-two 2500 kW diesel engine generator sets in Building G2, H, J & K (Ref. Nos. Gen2.5-1 through Gen2.5-22) shall not operate more than 1100 hours combined per year, calculated monthly as the sum of each consecutive 12 month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9VAC5-80-110 and Condition 9 of mNSR permit dated October 4, 2017)
8. Fuel Burning Equipment Requirements - In addition to the operating hours contained in permit Conditions 3, 4, 5, 6, and 7, no single diesel engine generator set shall operate more than 500 hours per year, calculated monthly as the sum of each consecutive 12 month period. Refer to Condition 18 for record keeping requirements to demonstrate compliance with this condition.
(9VAC5-80-110 and Condition 10 of mNSR permit dated October 4, 2017)
9. Fuel Burning Equipment Requirements - The permittee shall operate and maintain each engine-generator set and control device according to the manufacturer's written instructions or procedures developed by the permittee that are approved by the engine manufacturer. In addition, the permittee may only change those settings that are permitted by the manufacturer and do not impact on air emissions.
(9VAC5-80-110 and Condition 11 of mNSR permit dated October 4, 2017)
10. Fuel Burning Equipment Requirements - The approved fuel for the diesel engine generator sets shall be diesel fuel oil that meets the specifications below:
 - a. Does not exceed the American Society for Testing and Materials (ASTM) specification, D975, for grade ultra low sulfur 2-D or grade 2-D S15, or,
 - b. Has a maximum sulfur content not to exceed 0.0015% by weight (15 ppm), and either a minimum cetane number of forty or a maximum aromatic content of thirty-five percent by volume.

Exceedance of these specifications may be considered credible evidence of the exceedance of emission limits. A change in the fuel may require a permit to modify and operate.

(9VAC5-80-110 and Condition 12 of mNSR permit dated October 4, 2017)

11. Fuel Burning Equipment Requirements - Visible emissions from each diesel engine generator set shall not exceed five percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed ten percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A). This condition applies at all times except during start-up, shut-down and malfunction. During start-up and shut-down times, visible emissions from each diesel engine generator set shall not exceed ten percent opacity except during one six-minute period in any one hour in which visible emissions shall not exceed twenty percent opacity as determined by the EPA Method 9 (reference 40 CFR 60, Appendix A).
(9VAC5-80-110, 9VAC5-50-260, 9VAC5-50-80 and Condition 16 of mNSR permit dated October 4, 2017)
12. Fuel Burning Equipment Requirements - Emissions from the operation of each engine-generator set shall not exceed the limits specified below:

Engine-Generator Sets	Nitrogen Oxides as (NO ₂)* lbs/hr	Carbon Monoxide (CO) lbs/hr	Volatile Organic Compounds (VOC) lbs/hr	PM-10 & PM2.5 lbs/hr
Buildings G2, H, J and K: Gen2.5-1 through Gen2.5-22	48.1	6.02	1.20	0.80
Buildings G2, H, J and K: Gen 1 through Gen 54	38.86	3.95	1.13	0.57
Base Unit PBB6	4.47	0.47	0.11	0.06
Base Units PBB7 through PBB9	11.58	0.95	0.02	0.07
Building A engines (except A Base EG)	38.61	4.81	2.81	0.26
Building B engines (except B Base EG)	38.61	4.81	2.81	0.26
Building D engines (except D Base EG)	38.61	4.81	2.81	0.26
Building F engines (except F Base EG)	38.61	4.81	2.81	0.26
Building G1 engines	38.86	3.95	1.13	0.57
A Base EG (A105)	7.83	0.50	0.13	0.08
B Base EG (B105)	7.83	0.50	0.13	0.08
D Base EG (D105)	4.99	0.62	0.07	0.06
F Base EG (F105)	4.99	0.62	0.07	0.06

* NO₂ – Upon DEQ verification of a performance (stack) test, the facility has the option of using a lower emission rate (average of three one-hour test runs x 120%) by undergoing a permit amendment to incorporate the new lower rate.

The hourly NO_x emissions are based upon the current BACT limit of 6.0 g/bhp-hr at greater than 90% of the maximum design capacity of the diesel engines. Compliance with the hourly NO_x emission limit may be based on testing, if required by DEQ.

(9VAC5-80-110 and Condition 11 of mNSR permit dated October 4, 2017)

13. Fuel Burning Equipment Requirements - Annual Emergency Engine-Generator Emission Limits - Combined emissions from all the diesel engine generator sets shown in the Emission Units Tables section shall not exceed the limits specified below:

Pollutant	Buildings A, B, D, F and G1 (tons/year)	Buildings G2, H, J and K (tons/year)
Nitrogen Oxides (as NO ₂)	86.7	80.4
Carbon Monoxide (CO)	4.5	8.8
Volatile Organic Compounds (VOC)	3.2	2.2
PM-10 (Total)	0.8	1.2
PM-2.5 (Total)	0.8	1.2

These emissions are derived from the estimated overall emission contribution from operating limits. Exceedance of the operating limits may be considered credible evidence of the exceedance of emission limits. Compliance with these emission limits shall be determined by complying with permit Conditions 2, 3, 4, 5 and 14.

(9VAC5 5-80-110, 9VAC5-50-260 and Condition 15 of mNSR permit dated October 4, 2017)

Monitoring

14. Fuel Burning Equipment Requirements - Each diesel engine generator set shall be equipped with a non-resettable hour meter to continuously measure the operating hours for each unit. Each monitoring device shall be installed, maintained, calibrated and operated in accordance with approved procedures which shall include, as a minimum, the manufacturer's written requirements or recommendations.

Each monitoring device shall be provided with adequate access for inspection and shall be in operation when the engines are operating.

(9VAC5-80-110, 9VAC5-50-20 C and 9VAC5-50-260 and Condition 2 of mNSR permit dated October 4, 2017)

15. Fuel Burning Equipment Requirements - To ensure good performance, the monitoring devices used to continuously measure operating hours shall be observed by the permittee during each test firing and at a frequency of not less than once per day during days in which the respective engine generator sets are called into service.
(9VAC5-80-110 and Condition 4 of mNSR permit dated October 4, 2017)

16. Fuel Burning Equipment Requirements - The permittee shall obtain a certification from the fuel supplier with each shipment of diesel fuel oil. Each fuel supplier certification shall include the following:

- a. The name of the fuel supplier; and
- b. The date on which the diesel fuel oil was received; and
- c. The quantity of diesel fuel oil delivered in the shipment; and
- d. A statement that the diesel fuel oil conforms to the requirements of Condition 12 – Fuel Specifications, or
- e. Alternatively, the permittee must obtain approval from the Regional Air Compliance Manager of the DEQ's NRO (Northern Regional Office) if other documentation will be used to certify the diesel fuel oil type.

Fuel sampling and analysis, independent of that used for certification, as may be periodically required or conducted by DEQ, may be used to determine compliance with the fuel specifications stipulated in Condition 10.

(9VAC5-80-110 and Condition 13 of mNSR permit dated October 4, 2017)

Testing

17. Fuel Burning Equipment Requirements - An initial performance test shall be conducted for nitrogen oxides (as NO₂) emissions from the exhaust stacks on eight of the Caterpillar Model 3516C engine generator sets (Ref. Nos. Gen 1 through Gen 45) and for nitrogen oxides (as NO₂) and carbon monoxide (CO) on two of the Cummins Model DQKAE engine generator sets (Ref. Nos. Gen 46 through Gen 54), two of the Caterpillar Model 3516C HD engine generator sets (Ref. Nos. Gen2.5-1 through Gen2.5-19), and one of the Cummins Model DQKAN engine generator sets (Ref. Nos. Gen2.5-20 through Gen2.5-22) to determine compliance with the emission limits contained in Condition 12.
- a. Emissions testing of for each pollutant for each selected engine-generator shall consist of three (3) one-hour test runs. The average of the three runs shall be reported as the short-term emission rate for that engine-generator.
 - b. Testing shall be conducted with the engines operating at greater than 90% capacity unless multiple load band testing is approved by DEQ.
 - c. The tests shall be performed, reported, and demonstrate compliance within sixty days after achieving maximum power demand rate at which the facility will be operated but in no event later than 180 days after start-up of the permitted facility. Tests shall be conducted and reported and data reduced as set forth in 9VAC5-50-30 and the test methods and procedures contained in each applicable section or subpart listed in 9VAC5-50-410.
 - d. The details of the tests are to be arranged with the Regional Air Compliance Manager of the DEQ's NRO. The permittee shall submit two copies, one paper copy and one on removable electronic media, of the test protocol to the Regional Air Compliance Manager of the DEQ's NRO at least thirty days prior to testing to ensure adequate time for DEQ approval. If the test protocol is received by the DEQ with less than thirty days for review and acceptance, DEQ approval may not be issued in a timely manner to allow for testing to take place according to the permittee's schedule.
 - e. Should conditions occur which would require rescheduling the testing, the permittee shall notify the Regional Air Compliance Manager of the DEQ's NRO in writing, within seven days of the scheduled test date or as soon as the rescheduling is deemed necessary.
 - f. Two copies, one paper copy and one on removable electronic media, of the test results shall be submitted to the Regional Air Compliance Manager of the DEQ's NRO within sixty days after test completion and shall conform to the test report format enclosed with this permit.

(9VAC5-50-30, 9VAC5-80-1200 and Condition 17 of mNSR permit dated October 4, 2017)

Recordkeeping

18. Fuel Burning Equipment Requirements - Recordkeeping - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The

content and format of such records shall be arranged with the Northern Regional Office. These records shall include, but are not limited to:

- a. Documentation from the manufacturer that each emergency engine-generator set is certified to meet the EPA Tier 2 emission standards.
- b. A monthly log of the monitoring device data required by Condition 15. The log shall include the dates, engine run times, and the reason for operation as defined in Condition 4.
- c. Monthly and annual hours of operation for each diesel engine generator set to verify compliance with the operating limits in Conditions 3, 4, 5, 6, 7, and 8.
- d. All fuel supplier certifications.
- e. Fuel sampling analyses or certifications indicating the sulfur content of the diesel fuel oil.
- f. All VEE and emission stack test reports for each engine-generator.
- g. A copy of the maintenance schedule and records of scheduled and unscheduled maintenance and operating training as required by permit Condition 19.
- h. Engine information including make, model, serial number, model year, maximum engine power (bhp), and engine displacement for each engine-generator set.
- i. The manufacturer's written operating instructions or procedures developed by the owner/operator that are approved by the engine manufacturer for each emergency engine-generator.
- j. Records of changes in settings that are permitted by the manufacturer of the engine-generator sets.

Annual compliance shall be determined monthly by adding the total for the most recently completed calendar month to the individual monthly totals for the preceding eleven months.

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.

(9VAC5 5-80-10 and Condition 24 of mNSR permit dated October 4, 2017)

Facility Wide Conditions

Monitoring

19. Facility-Wide Requirement - Maintenance/Operating Procedures - At all times, including periods of startup, shutdown, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility, including associated air pollution control equipment, in a manner consistent with air

pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Regional Air Compliance Manager of the DEQ's NRO, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

The permittee shall take the following measures in order to minimize the duration and frequency of excess emissions, with respect to air pollution control equipment and process equipment which affect such emissions:

- a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance.
- b. Maintain an inventory of spare parts.
- c. Have available written operating procedures for equipment. These procedures shall be based on the manufacturer's recommendations, at a minimum.
- d. Train operators in the proper operation of all such equipment and familiarize the operators with written procedures, prior to their first operation of such equipment. The permittee shall maintain records of the training provided including the names of trainees, the date of training and the nature of the training.

Records of maintenance and training shall be maintained on-site for a period of five years and shall be made available to DEQ personnel upon request.

(9VAC5-80-110, 9VAC5-50-20 E and Condition 28 of mNSR permit approved January 29, 2014)

20. Facility Wide Requirement - Upon request by the DEQ, the permittee shall conduct additional performance tests of the emergency engine-generators to demonstrate compliance with the emission limits requirements contained in this permit. The details of the tests shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO.

(9VAC5-110, 9VAC5-50-30 G and Condition 18 of mNSR permit dated October 4, 2017)

21. Facility Wide Requirement - Upon request by the DEQ, the permittee shall conduct additional visible emission evaluations of the emergency engine-generators to demonstrate compliance with the visible emission limits contained in this permit. The details of the VEE shall be arranged with the Regional Air Compliance Manager of the DEQ's NRO.

(9VAC5-80-110, 9VAC5-50-30 G and Condition 19 of mNSR permit dated October 4, 2017)

22. Facility Wide Requirement - The facility shall be constructed so as to allow for emissions testing upon reasonable notice at any time, using appropriate methods. Sampling ports shall be provided when requested by the DEQ and safe sampling platforms and access shall be provided.

(9VAC5-80-110, 9VAC5-50-30 F and Condition 20 of mNSR permit dated October 4, 2017)

23. Facility Wide Conditions - If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use the appropriate method(s) in accordance with procedures approved by the DEQ.
(9VAC5-80-110)

Reporting

24. Facility Wide Requirement - Reporting- All correspondence concerning this permit should be submitted to the following address:

Regional Air Compliance Manager
Department of Environmental Quality
Northern Regional Office
13901 Crown Court
Woodbridge, VA 22193

(9VAC5-50-50, 9VAC5-50-410 and Condition 21 of mNSR permit dated January 29, 2014)

25. Facility Wide Requirement - Reporting - The permittee shall furnish written notification to the Regional Air Compliance Manager of the DEQ's NRO of:
- a. The actual date on which construction of each diesel engine generator set (Ref. Nos. Gen1 through Gen 54, Gen2.5-1 through Gen2.5-22 and PBB6 through PBB9) commenced within thirty (30) days after such date. The notification shall include the following:
 - i. Name and address of the permittee;
 - ii. The address of the affected source;
 - iii. Engine information including make, model, engine family, serial number, model year, maximum engine power, engine reference number and engine displacement;
 - iv. Emission control equipment; and
 - v. Fuel used.
 - b. The anticipated start-up date for each diesel engine generator set (Ref. No. 1 through 101 and PBB6 through PBB9) postmarked not more than sixty (60) days nor less than thirty (30) days prior to such date.
 - c. The actual start-up date for each diesel engine generator set (Ref. No. 1 through 101 and PBB6 through PBB9) within fifteen (15) days after such date.

- d. The anticipated date of performance tests for each diesel engine generator set (Ref. No. 1 through 101 and PBB6 through PBB9) postmarked at least thirty (30) days prior to such date.

(9VAC5-50-50, 9VAC5-80-110 and Condition 22 of mNSR permit dated October 4, 2017)

26. Facility Wide Requirement - Reporting - The owner of a stationary source emitting twenty-five tons per year or more of volatile organic compounds or nitrogen oxides shall submit a completed emission statement to the Regional Air Compliance Manager of the DEQ's NRO by April 15th of each year for the emissions discharged during the previous calendar year. The emission statement shall be prepared and submitted in the appropriate format.

(9VAC5-20-160 B and Condition 23 of mNSR permit dated October 4, 2017)

Standards of Performance for New Stationary Sources (NSPS) Subpart IIII and National Emission Standards for Hazardous Air Pollutants for Source Categories (MACT) Subpart ZZZZ Requirements

Unless otherwise noted, the requirements below apply to all the diesel engine generator sets listed in the tables of Emission Units above.

Limitations

27. Fuel Burning Equipment Requirements – (see equipment list) – NSPS Subpart IIII and MACT Subpart ZZZZ Requirements – The permittee shall operate and maintain each diesel engine generator set according to the emission standards as required in 40 CFR 60.4202 over the entire life of the engine. These emissions shall be equal to or less than the applicable emissions limits contained in 40 CFR 89.112.
(9VAC5-80-110, 40 CFR 60.4205(b) and 40 CFR 4206)
28. Fuel Burning Equipment Requirements – (see equipment list) – NSPS Subpart IIII and MACT Subpart ZZZZ Requirements – Except where this permit is more restrictive than the applicable requirement, each diesel engine generator set shall be operated in compliance with the requirements of 40 CFR Part 60, Subpart IIII.
(9VAC5-80-110 and 40 CFR Part 60 Subpart IIII)
29. Fuel Burning Equipment Requirements – (see equipment list) – NSPS Subpart IIII and MACT Subpart ZZZZ Requirements – Limitations – The diesel engine generator sets shall demonstrate compliance with 40 CFR Part 63 Subpart ZZZZ by demonstrating compliance with 40 CFR Part 60 Subpart IIII, with “emergency” being defined as stated in 40 CFR 63.6675.
(9VAC5-80-110 and 40 CFR Part 63 Subpart ZZZZ)
30. Fuel Burning Equipment Requirements – (see equipment list) – NSPS Subpart IIII and MACT Subpart ZZZZ Requirements – Limitations – Except where this permit is more restrictive than the applicable

requirement, each diesel engine generator set shall be operated in compliance with the requirements of 40 CFR Part 63, Subpart ZZZZ.
(9VAC5-80-110 and 40 CFR Part 63 Subpart ZZZZ)

Recordkeeping

31. Fuel Burning Requirements – (see equipment list) – NSPS Subpart IIII and MACT Subpart ZZZZZ Requirements – Recordkeeping – The permittee shall maintain records in accordance with §60.4214(a)(2), to include:
- a. All notifications submitted to comply with NSPS IIII and all documentation to support any notification.
 - b. Maintenance conducted on the engine.
 - c. Documentation from the manufacturer that the engine is certified to meet emission standards referenced in Condition 27.
32. Fuel Burning Equipment Requirements – (see equipment list) – NSPS Subpart IIII and MACT Subpart ZZZZ Requirements – Reporting – The permittee shall submit an annual report in accordance with §60.4214(d) if the emergency stationary CI ICE operate for the purposes specified in §60.4211(f)(3)(i). Annual reports for each calendar year must be submitted no later than March 31 of the following calendar year. The annual report must be submitted electronically using the subpart specific reporting form in the Compliance and Emissions Data Reporting Interface (CEDRI) that is accessed through EPA's Central Data Exchange (CDX) (www.epa.gov/cdx). However, if the reporting is not available in CEDRI at the time that the report is due, the written report must be submitted to the Administrator at the appropriate address listed in §60.4. The report must include the following information:
- a. Company name and address where the engine is located.
 - b. Date of the report and beginning and ending dates of the reporting period.
 - c. Engine site rating and model year.
 - d. Latitude and longitude of the engine in decimal degrees reported to the fifth decimal place.
 - e. Hours spent for operation for the purposes specified in §60.4211(f)(3)(i), including the date, start time, and end time for engine operation for the purposes specified in §60.4211(f)(3)(i). The report must also identify the entity that dispatched the engine and the situation that necessitated the dispatch of the engine.

Within fifteen (15) business days of submitting the annual report to EPA, the facility shall submit notification to the Air Compliance Manager of DEQ's Northern Regional Office of the date that the annual report was submitted to EPA.
(9VAC5-80-110 and 40 CFR 60.4214(d))

Insignificant Emission Units

33. Insignificant Emission Units - The following emission units at the facility are identified in the application as insignificant emission units under 9VAC5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (9VAC5-80-720B)	Rated Capacity (9VAC5-80-720C)
Tanks	Diesel fuel storage – belly tank under 2000 kw emergency generators (112 total)	9VAC5-80-720(B)(2)	VOCs less than five tons per year	4,000 gallons
Tanks	Diesel fuel storage – belly tank under 2000 kw emergency generators (22 total)	9VAC5-80-720(B)(2)	VOCs less than five tons per year	4,800 gallons
Gen A105	Diesel fuel storage – belly tank under 275 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	660 gallons
Gen B105	Diesel fuel storage – belly tank under 500 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	840 gallons
Gen D105	Diesel fuel storage – belly tank under 350 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	563 gallons
Gen F105	Diesel fuel storage – belly tank under 350 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	660 gallons
Gen HG1 West	Diesel fuel storage – belly tank under 600 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	1,200 gallons
Gen HG2 West	Diesel fuel storage – belly tank under 300 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	720 gallons
Gen K-House	Diesel fuel storage – belly tank under 600 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	1,200 gallons
Gen J-House	Diesel fuel storage – belly tank under 600 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	1,025 gallons
Gen H-House	Diesel fuel storage – belly tank under 600 kw emergency generators	9VAC5-80-720(B)(2)	VOCs less than five tons per year	1,000 gallons

These emission units are presumed to be in compliance with all requirements of the federal Clean Air Act as may apply. Based on this presumption, no monitoring, recordkeeping, or reporting shall be required for these emission units in accordance with 9VAC5-80-110.
(9VAC5-80-110)

Permit Shield & Inapplicable Requirements

34. Permit Shield & Inapplicable Requirements - Compliance with the provisions of this permit shall be deemed compliance with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
None Identified	N/A	N/A

Nothing in this permit shield shall alter the provisions of §303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by (i) the administrator pursuant to §114 of the federal Clean Air Act, (ii) the Board pursuant to §10.1-1314 or §10.1-1315 of the Virginia Air Pollution Control Law or (iii) the Department pursuant to §10.1-1307.3 of the Virginia Air Pollution Control Law.
(9VAC5-80-110 and 9VAC5-80-140)

General Conditions

35. General Conditions - Federal Enforceability - All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9VAC5-80-110)
36. General Conditions - Permit Expiration –
- This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless the owner submits a timely and complete application for renewal to the Department consistent with the requirements of 9VAC5-80-80, the right of the facility to operate shall be terminated upon permit expiration.
 - The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.

- c. If an applicant submits a timely and complete application for an initial permit or renewal under 9VAC5-80-80 F, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9VAC5 Chapter 80, until the Board takes final action on the application under 9VAC5-80-150.
- d. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9VAC5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9VAC5 Chapter 80.
- e. If an applicant submits a timely and complete application under section 9VAC5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9VAC5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- f. The protection under subsections F 1 and F 5 (ii) of section 9VAC5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9VAC5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9VAC5-80-80, 9VAC5-80-110 and 9VAC5-80-170)

37. General Conditions - Recordkeeping and Reporting - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:

- a. The date, place as defined in the permit, and time of sampling or measurements;
- b. The date(s) analyses were performed;
- c. The company or entity that performed the analyses;
- d. The analytical techniques or methods used;
- e. The results of such analyses; and
- f. The operating conditions existing at the time of sampling or measurement.

(9VAC5-80-110)

38. General Conditions - Recordkeeping and Reporting - Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records and all

original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9VAC5-80-110)

39. General Conditions - Recordkeeping and Reporting - The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9VAC5-80-430 G, and shall include:
- a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31; and
 - b. All deviations from permit requirements. For purpose of this permit, deviations include, but are not limited to:
 - i. Exceedances of emissions limitations or operational restrictions;
 - ii. Excursions from control device operating parameter requirements, as documented by continuous emission monitoring or periodic monitoring, or Compliance Assurance Monitoring (CAM) which indicates an exceedance of emission limitations or operational restrictions; or,
 - iii. Failure to meet monitoring, recordkeeping, or reporting requirements contained in this permit.
 - c. If there were no deviations from permit conditions during the time period, the permittee shall include a statement in the report that "no deviations from permit requirements occurred during this semi-annual reporting period."

(9VAC5-80-110)

40. General Conditions - Annual Compliance Certification - Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than March 1 each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices for the period ending December 31. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. The permittee shall maintain a copy of the certification for five (5) years after submittal of the certification. This certification shall be signed by a responsible official, consistent with 9VAC5-80-430 G, and shall include:
- a. The time period included in the certification. The time period to be addressed is January 1 to December 31;
 - b. The identification of each term or condition of the permit that is the basis of the certification;
 - c. The compliance status;

- d. Whether compliance was continuous or intermittent, and if not continuous, documentation of each incident of non-compliance;
- e. Consistent with subsection 9VAC5-80-490 E, the method or methods used for determining the compliance status of the source at the time of certification and over the reporting period;
- f. Such other facts as the permit may require to determine the compliance status of the source; and
- g. One copy of the annual compliance certification shall be submitted to EPA in electronic format only. The certification document should be sent to the following electronic mailing address:

R3_APD_Permits@epa.gov

(9VAC5-80-110)

- 41. General Conditions - Permit Deviation Reporting - The permittee shall notify the Northern Regional Office within four daytime business hours after discovery of any deviations from permit requirements which may cause excess emissions for more than one hour, including those attributable to upset conditions as may be defined in this permit. In addition, within 14 days of the discovery, the permittee shall provide a written statement explaining the problem, any corrective actions or preventative measures taken, and the estimated duration of the permit deviation. The occurrence should also be reported in the next semi-annual compliance monitoring report pursuant to Condition 32 of this permit.
(9VAC5-80-110 F. 2)
- 42. General Conditions - Failure/Malfunction Reporting - In the event that any affected facility or related air pollution control equipment fails or malfunctions in such a manner that may cause excess emissions for more than one hour, the owner shall no later than four daytime business hours after the malfunction is discovered, notify the Northern Regional Office such failure or malfunction and within 14 days provide a written statement giving all pertinent facts, including the estimated duration of the breakdown. Owners subject to the requirements of 9VAC5-40-50 C and 9VAC5-50-50 C are not required to provide the written statement prescribed in this paragraph for facilities subject to the monitoring requirements of 9VAC5-40-40 and 9VAC5-50-40. When the condition causing the failure or malfunction has been corrected and the equipment is again in operation, the owner shall notify the Northern Regional Office.
(9VAC5-80-110 and 9VAC5-20-180)
- 43. General Conditions - Failure/Malfunction Reporting - The emission units that have continuous monitors subject to 9VAC5-40-50 C and 9VAC5-50-50 C are not subject to the 14 day written notification.
(9VAC5-20-180)

General Conditions - Failure/Malfunction Reporting - Each owner required to install a continuous monitoring system (CMS) or monitoring device subject to 9VAC5-40-41 or 9VAC5-50-410 shall submit a written report of excess emissions (as defined in the applicable subpart in 9VAC5-50-410) and either a monitoring systems performance report or a summary report form, or both, to the board semiannually. All

semi-annual reports shall be postmarked by the 30th day following the end of each calendar semi-annual period (June 30th and January 30th). All reports shall include the following information:

- a. The magnitude of excess emissions computed in accordance with 40 CFR 60.13(h) or 9VAC5-40-41 B.6, any conversion factors used, and the date and time of commencement and completion of each period of excess emissions;
- b. Specific identification of each period of excess emissions that occurs during startups, shutdowns, and malfunctions of the source. The nature and cause of any malfunction (if known), the corrective action taken or preventative measures adopted;
- c. The date and time identifying each period during which the continuous monitoring system was inoperative except for zero and span checks and the nature of the system repairs or adjustments; and
- d. When no excess emissions have occurred or the continuous monitoring systems have not been inoperative, repaired or adjusted, such information shall be stated in the report.

All malfunctions of emission units not subject to 9VAC5-40-50 C and 9VAC5-50-50 C require written reports within 14 days of the discovery of the malfunction.
(9VAC5-80-110, and 9VAC5-20-180 C)

44. General Conditions - Severability - The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not affect or impair the remaining conditions, requirements, or portions of the permit.
(9VAC5-80-110)
45. General Conditions - Duty to Comply - The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is ground for enforcement action; for permit termination, revocation and reissuance, or modification; or, for denial of a permit renewal application.
(9VAC5-80-110)
46. General Conditions - Need to Halt or Reduce Activity not a Defense - It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9VAC5-80-110)
47. General Conditions - Permit Modification - A physical change in, or change in the method of operation of, this stationary source may be subject to permitting under State Regulations 9VAC5-80-50, 9VAC5-80-1100, 9VAC5-80-1605, or 9VAC5-80-2000 and may require a permit modification and/or revisions except as may be authorized in any approved alternative operating scenarios.
(9VAC5-80-110, 9VAC5-80-190 and 9VAC5-80-260)
48. General Conditions - Property Rights - The permit does not convey any property rights of any sort, or any exclusive privilege.

(9VAC5-80-110)

49. General Conditions - Duty to Submit Information - The permittee shall furnish to the Board, within a reasonable time, any information that the Board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the Board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the Board along with a claim of confidentiality.
(9VAC5-80-110)
50. General Conditions - Duty to Submit Information - Any document (including reports) required in a permit condition to be submitted to the Board shall contain a certification by a responsible official that meets the requirements of 9VAC5-80-80 G.
(9VAC5-80-110)
51. General Conditions - Duty to Pay Permit Fees - The owner of any source for which a permit under 9VAC5-80-50 through 9VAC5-80-300 was issued shall pay permit fees consistent with the requirements of 9VAC5-80-310 through 9VAC5-80-350 in addition to an annual permit maintenance fee consistent with the requirements of 9VAC5-80-2310 through 9VAC5-80-2350. The actual emissions covered by the permit program fees for the preceding year shall be calculated by the owner and submitted to the Department by April 15 of each year. The calculations and final amount of emissions are subject to verification and final determination by DEQ. The amount of the annual permit maintenance fee shall be the largest applicable base permit maintenance fee amount from Table 8-11A in 9VAC5-80-2340, adjusted annually by the change in the Consumer Price Index.
(9VAC5-80-110, 9VAC5-80-340 and 9VAC5-80-2340)
52. General Conditions - Fugitive Dust Emission Standards - During the operation of a stationary source or any other building, structure, facility, or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired, or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to, the following:
- a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads, or the clearing of land;
 - b. Application of asphalt, water, or suitable chemicals on dirt roads, materials stockpiles, and other surfaces which may create airborne dust; the paving of roadways and the maintaining of them in a clean condition;
 - c. Installation and use of hoods, fans, and fabric filters to enclose and vent the handling of dusty material. Adequate containment methods shall be employed during sandblasting or similar operations;

- d. Open equipment for conveying or transporting material likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion; and,
- e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9VAC5-80-110)

53. General Conditions - Startup, Shutdown, and Malfunction - At all times, including periods of startup, shutdown, and soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the Board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9VAC5-80-110)

54. General Conditions - Alternative Operating Scenarios - Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9VAC5 Chapter 80, Article 1.

(9VAC5-80-110)

55. General Conditions - Inspection and Entry Requirements - The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:

- a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
- b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
- c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
- d. Sample or monitor at reasonable times' substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9VAC5-80-110)

56. General Conditions - Reopening for Cause - The permit shall be reopened by the Board if additional federal requirements become applicable to a major source with a remaining permit term of three years or

more. Such reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9VAC5-80-80 F. The conditions for reopening a permit are as follows:

- a. The permit shall be reopened if the Board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.
- b. The permit shall be reopened if the administrator or the Board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
- c. The permit shall not be reopened by the Board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9VAC5-80-110 D.

(9VAC5-80-110)

57. General Conditions - Permit Availability - Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.

(9VAC5-80-110 and 9VAC5-80-150)

58. General Conditions - Transfer of Permits

- a. No person shall transfer a permit from one location to another, unless authorized under 9VAC5-80-130, or from one piece of equipment to another.
- b. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the Board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9VAC5-80-200.
- c. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the Board of the change in source name within 30 days of the name change and shall comply with the requirements of 9VAC5-80-200.

(9VAC5-80-110 and 9VAC5-80-160)

59. General Conditions - Permit Revocation or Termination for Cause - A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9VAC5 Chapter 80 Article 1. The Board may suspend, under such conditions and for such period of time as the Board may prescribe any permit for any grounds for revocation or termination or for any other violations of these regulations.

(9VAC5-80-110, 9VAC5-80-190 C and 9VAC5-80-260)

60. General Conditions - Duty to Supplement or Correct Application - Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.
(9VAC5-80-110 and 9VAC5-80-80 E)
61. General Conditions - Stratospheric Ozone Protection - If the permittee handles or emits one or more Class I or II substances subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.
(9VAC5-80-110 and 40 CFR Part 82)
62. General Conditions - Asbestos Requirements - The permittee shall comply with the requirements of National Emissions Standards for Hazardous Air Pollutants (40 CFR 61) Subpart M, National Emission Standards for Asbestos as it applies to the following: Standards for Demolition and Renovation (40 CFR 61.145), Standards for Insulating Materials (40 CFR 61.148), and Standards for Waste Disposal (40 CFR 61.150).
(9VAC5-60-70 and 9VAC5-80-110)
63. General Conditions - Accidental Release Prevention - If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined by 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.
(9VAC5-80-110 and 40 CFR Part 68)
64. General Conditions - Changes to Permits for Emissions Trading - No permit revision shall be required under any federally approved economic incentives, marketable permits, emissions trading and other similar programs or processes for changes that are provided for in this permit.
(9VAC5-80-110)
65. General Conditions - Emissions Trading - Where the trading of emissions increases and decreases within the permitted facility is to occur within the context of this permit and to the extent that the regulations provide for trading such increases and decreases without a case-by-case approval of each emissions trade:
- a. All terms and conditions required under 9VAC5-80-110, except subsection N, shall be included to determine compliance.
 - b. The permit shield described in 9VAC5-80-140 shall extend to all terms and conditions that allow such increases and decreases in emissions.
 - c. The owner shall meet all applicable requirements including the requirements of 9VAC5-80-50 through 9VAC5-80-300.

(9VAC5-80-110)